

## ABSTRACT OF THE DISCLOSURE

5 A hand operated controller or converter structured for  
allowing hand inputs to be converted or translated into  
electrical outputs, the controller structured with a plate  
or platform moveable relative to a base or housing about two  
mutually perpendicular axes generally parallel to the  
platform to effect a plurality of sensors for defining  
output signal(s) based on movement of the platform. The  
sensors each have an electrically active activator spatially  
10 separated from an electric contact surface. A tactile  
feedback motor with shaft and offset weight is mounted as a  
component of the controller for providing vibration to be  
felt by a hand operating the controller. In some  
embodiments the sensors are pressure sensitive variable  
15 output sensors.

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